

## ABSTRACT

A problem to be solved by the present invention is to make it possible to compress shape information with high efficiency even with such data represent a shape of a short  
5 segment of road or the like, and further reduce the data amount.

The starting-end location (starting-end node P1) of a branch lane shape data (11) connected to a main lane of a road or the like is on a main lane shape data (12), and therefore, the starting-end location information of the branch lane is  
10 represented by a relative location utilizing a main lane shape data. For example, the starting-end location is represented as [shape data number of main lane to be referenced] + [number of nodes from starting end of main lane] + [deviation angle from the orientation of the main lane shape].

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